CONTENTS

AMERICAN ASSOCIATION OF ECONOMIC ENTOMOLOGISTS, Proceedings of the Forty-eighth Annual Meeting, St. Louis, Mo., December 13, 1935–January 1, 1935 ..... (Feb.) 229

AMERICAN ASSOCIATION OF ECONOMIC ENTOMOLOGISTS, Program of the Forty-ninth Annual Meeting, Atlantic City, N. J., December 28–31, 1936 ..... (Dec.) 1039

COTTON STATES BRANCH, Proceedings of the Eleventh Annual Meeting, Jackson, Miss., February 5–6, 1936 ..... (Oct.) 1034

CURRENT NOTES 227, 476, 482, 508, 526, 583, 809, 1031, 1176

EASTERN BRANCH, Proceedings of the Seventh Annual Meeting, Baltimore, Md., November 14–15, 1935 ..... (Feb.) 253

HORTICULTURAL INSPECTION NOTES. 227, 296, 324, 356, 457, 472, 600, 637, 743, 756, 765, 771, 780, 790, 811, 826, 837, 855, 859, 1033, 1087, 1117, 1146, 1166, 1180

INDEX ..... (Dec.) 1182

NORTH CENTRAL STATES, Report of the Delegate to the Fourteenth Annual Meeting, Urbana, Ill., February 28–March 1, 1935 ..... (Feb.) 257

PACIFIC SLOPE BRANCH, Report of the Twenty-first Annual Meeting, Seattle, Wash., June 18–19, 1936 ..... (Dec.) 1181

ACKERMAN, A. J. and L. F. STEINER, Large-scale Test of Orchard Sanitation to Control Codling Moth, Progress Report ..... (Aug.) 648

ACREE, FRED, JR., P. S. SCHAFFER and H. L. HALLER, Constituents of Pyrethrum Flowers. III. The Pyrethrin Content of Fresh Flowers ..... (June) 601

ADAMS, J. A., B. T. SNIPES and R. E. HUTCHINS, Effectiveness of Sodium Fluoride, Arsenic Trioxide and Thiodiphenylamine as Food Poisons for the Firebrat, *Thermobia domestica* (Packard) ..... (Apr.) 421

ALLEN, T. C., Toxicity of Kerosene Steepates of Derris and Pyrethrum to Some Potato Insects ..... (Aug.) 742

ALLINGER, H. W. and J. E. ECKERT, Relation of Airplane Dusting to Beekeeping. ..... (Oct.) 885

AMOS, JOHN M. and HOWARD O. DEAY, Dust Treatments for Protecting Beans from the Bean Weevil ..... (June) 498

AMOS, JOHN M. and S. A. SUMMERLAND, Cerambycids Captured in Codling Moth Bait Traps ..... (Sci. Note, Dec.) 1172

ANDERSON, LAUREN D., C. R. WILLEY and HARRY G. WALKER, European Corn Borer on the Eastern Shore of Virginia ..... (Feb.) 202

ANDERSON, W. H., ERNEST N. CORY and H. G. HARNS, Dusts for Control of Flies on Cattle ..... (Apr.) 331

ANDRE, FLOYD and H. D. TATE, Laboratory Studies on Toxicity of Nicotine and Soap to Gladiolus Thrips and Onion Thrips, *Taeniothrips simplex* (Morison), *Thrips tabaci* Lindeman ..... (Aug.) 738

BACK, E. A., *Gryllus domesticus* L. and City Dumps ..... (Feb.) 198

BAILEY, STANLEY F., California Christmas Berry Thrips, *Rhynchothrips ilex* (Moulton) ..... (Dec.) 1114

BALES, IRWIN W., Cricket Control in Washington ..... (Oct.) 916

BALL, E. D., Food Plants of Some Arizona Grasshoppers ..... (Aug.) 679

BALZER, AUGUST I. and E. K. BYNUM, Cold-water Treatment as a Control for the Sugar Cane Borer ..... (Apr.) 458

BARBER, GEORGE W., Efficiency of *Trichogramma minutum* Riley in Relation to Population Density of its Host ..... (Sci. Note, June) 631

BARBER, GEORGE W., Method of Rearing Corn Earworm Larvae (Sci. Note, Dec.) 1175

BASINGER, A. J., Notes on the Orange Worms *Argyrotaenia* (*Tortrix*) *citrana* Fernald and *Platynota stultana* Wlsm. ..... (Feb.) 131

BASINGER, A. J. and A. M. BOYCE, Orange Worms in California and Their Control. ..... (Feb.) 161

BECKER, W. B. and B. J. KASTON, *Spathius canadensis* Ashm., a Parasite of *Hylurgopinus rufipes* (Eich.) ..... (Sci. Note, Aug.) 807

BENTLEY, G. M., H. L. Fackler 1894–1935 ..... (Obituary, Feb.) 224

BERRY, N. C. and M. MCPHAIL, Observations on *Anastrepha pallens* (Coq.) ..... (Apr.) 405

CONTENTS

AMERICAN ASSOCIATION OF ECONOMIC ENTOMOLOGISTS, Proceedings of the Forty-eighth Annual Meeting, St. Louis, Mo., December 13, 1935–January 1, 1935 ..... (Feb.) 229

AMERICAN ASSOCIATION OF ECONOMIC ENTOMOLOGISTS, Program of the Forty-ninth Annual Meeting, Atlantic City, N. J., December 28–31, 1936 ..... (Dec.) 1039

COTTON STATES BRANCH, Proceedings of the Eleventh Annual Meeting, Jackson, Miss., February 5–6, 1936 ..... (Oct.) 1034

CURRENT NOTES 227, 476, 482, 508, 526, 583, 809, 1031, 1176

EASTERN BRANCH, Proceedings of the Seventh Annual Meeting, Baltimore, Md., November 14–15, 1935 ..... (Feb.) 253

HORTICULTURAL INSPECTION NOTES. 227, 296, 324, 356, 457, 472, 600, 637, 743, 756, 765, 771, 780, 790, 811, 826, 837, 855, 859, 1033, 1087, 1117, 1146, 1166, 1180

INDEX ..... (Dec.) 1182

NORTH CENTRAL STATES, Report of the Delegate to the Fourteenth Annual Meeting, Urbana, Ill., February 28–March 1, 1935 ..... (Feb.) 257

PACIFIC SLOPE BRANCH, Report of the Twenty-first Annual Meeting, Seattle, Wash., June 18–19, 1936 ..... (Dec.) 1181

ACKERMAN, A. J. and L. F. STEINER, Large-scale Test of Orchard Sanitation to Control Codling Moth, Progress Report ..... (Aug.) 648

ACREE, FRED, JR., P. S. SCHAFFER and H. L. HALLER, Constituents of Pyrethrum Flowers. III. The Pyrethrin Content of Fresh Flowers ..... (June) 601

ADAMS, J. A., B. T. SNIPES and R. E. HUTCHINS, Effectiveness of Sodium Fluoride, Arsenic Trioxide and Thiodiphenylamine as Food Poisons for the Firebrat, *Thermobia domestica* (Packard) ..... (Apr.) 421

ALLEN, T. C., Toxicity of Kerosene Steepates of Derris and Pyrethrum to Some Potato Insects ..... (Aug.) 742

ALLINGER, H. W. and J. E. ECKERT, Relation of Airplane Dusting to Beekeeping. ..... (Oct.) 885

AMOS, JOHN M. and HOWARD O. DEAY, Dust Treatments for Protecting Beans from the Bean Weevil ..... (June) 498

AMOS, JOHN M. and S. A. SUMMERLAND, Cerambycids Captured in Codling Moth Bait Traps ..... (Sci. Note, Dec.) 1172

ANDERSON, LAUREN D., C. R. WILLEY and HARRY G. WALKER, European Corn Borer on the Eastern Shore of Virginia ..... (Feb.) 202

ANDERSON, W. H., ERNEST N. CORY and H. G. HARNS, Dusts for Control of Flies on Cattle ..... (Apr.) 331

ANDRE, FLOYD and H. D. TATE, Laboratory Studies on Toxicity of Nicotine and Soap to Gladiolus Thrips and Onion Thrips, *Taeniothrips simplex* (Morison), *Thrips tabaci* Lindeman ..... (Aug.) 738

BACK, E. A., *Gryllus domesticus* L. and City Dumps ..... (Feb.) 198

BAILEY, STANLEY F., California Christmas Berry Thrips, *Rhynchothrips ilex* (Moulton) ..... (Dec.) 1114

BALES, IRWIN W., Cricket Control in Washington ..... (Oct.) 916

BALL, E. D., Food Plants of Some Arizona Grasshoppers ..... (Aug.) 679

BALZER, AUGUST I. and E. K. BYNUM, Cold-water Treatment as a Control for the Sugar Cane Borer ..... (Apr.) 458

BARBER, GEORGE W., Efficiency of *Trichogramma minutum* Riley in Relation to Population Density of its Host ..... (Sci. Note, June) 631

BARBER, GEORGE W., Method of Rearing Corn Earworm Larvae (Sci. Note, Dec.) 1175

BASINGER, A. J., Notes on the Orange Worms *Argyrotaenia* (*Tortrix*) *citrana* Fernald and *Platynota stultana* Wlsm. ..... (Feb.) 131

BASINGER, A. J. and A. M. BOYCE, Orange Worms in California and Their Control. ..... (Feb.) 161

BECKER, W. B. and B. J. KASTON, *Spathius canadensis* Ashm., a Parasite of *Hylurgopinus rufipes* (Eich.) ..... (Sci. Note, Aug.) 807

BENTLEY, G. M., H. L. Fackler 1894–1935 ..... (Obituary, Feb.) 224

BERRY, N. C. and M. MCPHAIL, Observations on *Anastrepha pallens* (Coq.) ..... (Apr.) 405

Forestry lib.

BIEBERDORF, G. A. and F. A. FENTON, Fly Control on A & M Farms, Stillwater, Okla. (Oct.) 1003
BILLINGS, SAMUEL C., Notes on Clothes Moth Breeding (Oct.) 1014
BISHOPP, F. C. and HOMER HIXSON, Biology and Economic Importance of the Gulf Coast Tick (Dec.) 1068
BISHOPP, F. C. and W. E. DOVE, The Screw Worm Situation in 1935 (Dec.) 1076
BISSELL, THEO. L., Insects Infesting Cotton Seed (Sci. Note, June) 634
BLISS, C. I. and B. M. BROADBENT, Comparison of Criteria of Susceptibility in the Response of *Drosophila* to Hydrocyanic Acid Gas. II. Recovery Time (Feb.) 143
BORDEN, ARTHUR D., Tank-mixture Method of Using Oil Sprays for Deciduous Fruits (Apr.) 438
BOTTIMER, L. J., *Bruchus brachialis* Fahraeus in Georgia (Sci. Note, Aug.) 807
BOYCE, A. and D. T. PRENDERGAST, Dinitro-ortho-cyclohexylphenol Offers Promise in Control of Citrus Red Mite (Sci. Note, Feb.) 218
BOYCE, A. M., The Citrus Red Mite, *Paratetranychus citri* McG. in California, and Its Control (Feb.) 125
BOYCE, A. M. and A. J. BASINGER, Orange Worms in California and Their Control. (Feb.) 161
BRANNON, LOYD W. and NEALE F. HOWARD, Observations on Control of Mexican Bean Beetle in Association with Powdery Mildew Disease on Snap Beans (Sci. Note, Oct.) 1028
BREAKEY, E. P. and A. C. MILLER, Halowax (Chlorinated Naphthalene) as an Ovicide for Codling Moth and Oriental Fruit Moth (Oct.) 820
BRITTON, W. E., "Insect Enemies of Shade Trees." (Review, Feb.) 222
BROADBENT, B. M. and C. I. BLISS, Comparison of Criteria of Susceptibility in the Response of *Drosophila* to Hydrocyanic Acid Gas. II. Recovery Time (Feb.) 143
BROMLEY, S. W. and E. P. FELT, Oil Effects on Shade Trees (Apr.) 357
BROMLEY, S. W. and E. P. FELT, Shade-tree Insect Developments (June) 490
BRONSON, T. E., F. E. CARROLL and J. E. DUDLEY, JR., Experiments with Derris as a Control for the Pea Aphid (June) 501
BRONSON, THEO E., Effect of Ground Derris Upon Pea Aphid when Infesting Peas Subsequent to Spraying (Dec.) 1170
BUCHANAN, W. D., R. R. WHITTEN, C. H. HOFFMAN and C. W. COLLINS, Bark Beetles and Other Possible Insect Vectors of the Dutch Elm Disease, *Ceratostomella ulmi* (Schwarz) Buisman (Feb.) 169
BUTCHER, F. G., Studies of Seasonal Occurrence of Injuries to Potato Tubers in Western New York (June) 486
BUTCHER, F. GRAY, Injury to Carrots by the Potato Scab Gnat, *Pnyxia scabiei* (Hopkins) (Sci. Note, Apr.) 464
BUTCHER, FRED D., Effective Grasshopper Control by Farm Operators (Oct.) 918
BURGESS, A. F., Recent Work in Control of Gypsy Moth and Brown-tail Moth. (Aug.) 773
BURKHOLDER, C. L. and O. W. FORD, Comparative Methods of Removing Lead Loads Resulting from a Heavy First-brood Oil–Lead Schedule (Oct.) 827
BUSHNELL, RALPH J., Effects of Some Inorganic Salts on Development and Reproduction of the Bean Weevil, *Acanthoscelides obtectus* (June) 509
BYNUM, E. K. and AUGUST I. BALZER, Cold-water Treatment as a Control for the Sugar Cane Borer (Apr.) 458

CALFEE, R. K. and P. O. RITCHER, Wider Uses for Nicotine (Sci. Note, Oct.) 1027
CAMPBELL, ROY E. and J. C. ELMORE, Attraction of Cucumber Beetles to the Buffalo Gourd (Oct.) 830
CARROLL, F. E., J. E. DUDLEY, JR. and T. E. BRONSON, Experiments with Derris as a Control for the Pea Aphid (June) 501
CARRUTH, LAURENCE A., Experiments for the Control of Larvae of *Heliothis obsoleta* Fabr. on Western Long Island During 1935 (Feb.) 205
CARRUTH, LAURENCE A., Further Observations on the Oblong Leaf Weevil in Western New York (Sci. Note, Aug.) 806
CARTER, R. H., The Fluorine Compounds as Insecticides. A Monograph with Annotated Bibliography (Sci. Note, Oct.) 1022
CAVALLITO, CHESTER J. and JOSEPH M. GINSBURG, Arsenical Substitutes. II. Some

Relationship between Molecular Structure and Toxicity of Organic Compounds to the Silk Worm, *Bombyx mori*.....(Oct.) 856
CHAMBERLIN, F. S., Comparative Toxicity of Dust Mixtures Containing Derris and Cubé to the Tobacco Flea Beetle under Cage Conditions.....(Sci. Note, Feb.) 217
CHAMBERLIN, F. S. and A. W. MORRILL, JR., Experiments to Control Tobacco Budworm.....(Oct.) 967
CHAMBERLIN, F. S. and S. E. CRUMB, Laboratory Tests on Comparative Effectiveness of Fumigants Against Cigarette Beetle in Cigars.....(Oct.) 983
CHAMBERS, E. L., European Corn Borer Situation in Wisconsin.....(Oct.) 944
CHAMBERS, E. L., The Wisconsin Occupational Bee Tax.....(Oct.) 867
CHANDLER, S. C., Liquid Applications to Control Peach Borer and Lesser Peach Borer.....(Aug.) 754
CHAPIN, EDWARD A., Correct Name for the Mexican Bean Beetle.(Sci. Note, Feb.) 214
CHAPMAN, P. J. and R. W. DEAN, Further Studies of Larvicides to Control Fruit Tree Leaf Roller, with Special Reference to Lead Arsenate and Supplements.....(June) 561
COCKERHAM, K. L. and O. T. DEEN, Fumigating Sweet Potato Seed with PDB to Control Sweet Potato Weevil.....(Oct.) 992
COCKERHAM, K. L. and O. T. DEEN, Notes on Life History, Habits and Distribution of *Heterodereslaurentii* Guer.....(Apr.) 288
COLLINS, C. W., W. D. BUCHANAN, R. R. WHITTEN and C. H. HOFFMAN, Bark Beetles and Other Possible Insect Vectors of the Dutch Elm Disease, *Ceratostomella ulmi* (Schwarz) Buisman.....(Feb.) 169
COLMAN, WALLACE, Comparison of Tetrahydronaphthalene and Ethylene Dichloride–Carbon Tetrachloride Mixture as Fumigants Against Clothes Moth Larvae.....(Sci. Note, June) 629
COMPTON, C. C. "Insect Pests of Glasshouse Crops."(Review, Dec.) 1179
COMPTON, C. C., Rôle of Light Traps in Control of Mushroom Springtail...(Aug.) 735
CORY, ERNEST N., H. G. HARNS and W. H. ANDERSON, Dusts for Control of Flies on Cattle.....(Apr.) 331
COTTON, R. T., H. D. YOUNG and GEORGE B. WAGNER, Fumigation of Flour Mills with Hydrocyanic Acid Gas.....(June) 514
CUPPLES, H. L., JULIAN HILEY, H. R. YUST and F. H. LATHROP, Comparative Toxicities of Methyl Thiocyanate and Hydrocyanic Acid to the California Red Scale.....(Apr.) 410
CUPPLES, H. L., H. R. YUST and JULIAN HILEY, Tests of Possible Substitutes for Hydrocyanic Acid in Fumigation of California Red Scale.....(June) 611
CRAIG, F. WALDO, Economic Control of *Magicicada* (*Tibician*) *septendecim* L. in a Grove of Century-old Oaks.....(Feb.) 190
CRAIG, L. C., T. R. HANSBERRY and C. H. RICHARDSON, Toxic Action of Nicotines, Nornicotines and Anabasine Upon *Aphis rumicis* L.....(Oct.) 850
CREIGHTON, JOHN T., *Anomis erosa* Hubn. as an Insect Pest of Cotton..... 279
CREIGHTON, JOHN T., Newell Entomological Society.....(Report, June) 634
CREIGHTON, JOHN T., Report on Cotton Leaf-worm Investigations in Florida, Including Temperature and Hibernation Studies.....(Feb.) 88
CRUMB, S. E. and F. S. CHAMBERLIN, Laboratory Tests on Comparative Effectiveness of Fumigants Against Cigarette Beetle in Cigars.....(Oct.) 983

DAHMS, R. G., R. O. SNELLING and F. A. FENTON, Effect of Several Varieties of Sorghum and other Host Plants on Biology of the Chinch Bug.....(Dec.) 1147
DANIEL, DERRILL M., Mass Liberation of an Oriental Fruit Moth Parasite..(Apr.) 459
DAVIS, J. J. Justus Watson Folsom 1871–1936.....(Obituary, Dec.) 1178
DAVIS, J. J., Remarks of Chairman, Symposium: Orchard Sanitation.....(Feb.) 36
DAVIS, J. J., Rôle of Sectional Meetings.....(Editorial, Oct.) 1029
DAWSON, J. CARL, Japanese Beetle in the Middle West.....(Aug.) 778
DEAN, GEO. A., Progress in Cooperation.....(Editorial, Dec.) 1177
DEAN, GEORGE A., Cooperation of Officials of the Kansas Port of Entry in Assisting the Kansas Entomological Commission to Enforce Regulatory Measures..(Aug.) 772
DEAN, R. W. and P. J. CHAPMAN, Further Studies of Larvicides to Control Fruit Tree Leaf Roller, with Special Reference to Lead Arsenate and Supplements.....(June) 561

DEARBORN, F. E., Homologs of Paris Green. II. Higher Members of the Acetic Acid Series. . . . . (Apr.) 445
DEAY, HOWARD O. and JOHN M. AMOS, Dust Treatments for Protecting Beans from the Bean Weevil. . . . . (June) 498
DECKER, G. C. and A. D. WORTHINGTON, Fighting Chinch Bugs in Iowa. . (Aug.) 760
DECKER, G. C. and C. J. DRAKE, The Chinch Bug Situation in Iowa. . . . . (Aug.) 781
DEEN, O. T. and K. L. COCKERHAM, Fumigating Sweet Potato Seed with PDB to Control Sweet Potato Weevil. . . . . (Oct.) 992
DEEN, O. T. and K. L. COCKERHAM, Notes on Life History, Habits and Distribution of *Heterodercs laurentii* Guer. . . . . (Apr.) 288
DELONG, DWIGHT M., Industry's Challenge to Young Entomologists. . . . . (Editorial, Aug.) 808
DIETRICH, HENRY, Elm Bark Beetles in New York State. . . . . (Sci. Note, Feb.) 217
DIETRICH, HENRY, *Scolytus sulcatus* Lec. on Apple in New York State. . . . . (Sci. Note, Feb.) 217
DOUCETTE, CHARLES F., Observations on Bulb Scale Mite as a Major Pest of Narcissus. . . . . (Dec.) 1103
DOVE, W. E. and F. C. BISHOPP, The Screw Worm Situation in 1935. . . . . (Dec.) 1076
DRAKE, CARL J., Teaching and Training in the Field of Entomology. . . . . (Feb.) 28
DRAKE, C. J. and G. C. DECKER, The Chinch Bug Situation in Iowa. . . . . (Aug.) 781
DRIGGERS, BYRLEY F., Codling Moth Experiments in New Jersey in 1935. . (Apr.) 369
DRIGGERS, B. F. and B. B. PEPPER, Effect of Orchard Practices on Codling Moth and Leafhopper Parasitism. . . . . (June) 477
DUDLEY, J. E., JR., T. E. BRONSON and F. E. CARROLL, Experiments with Derris as a Control for the Pea Aphid. . . . . (June) 501
DUNNAM, E. W., Pilosity of the Cotton Plant in Relation to Adherence of Dusted Calcium Arsenate. . . . . (Dec.) 1085
DUTTON, W. C., Orchard Trials of Dinitro-o-cyclohexylphenol in Petroleum Oil for Control of Rosy Apple Aphis and San Jose Scale. . . . . (Feb.) 62

ECKERT, J. E., Preparation, Shipment and Installation of Package Bees. . . . (Oct.) 877
ECKERT, J. E. and H. W. ALLINGER, Relation of Airplane Dusting to Beekeeping. . . . . (Oct.) 885
EDDY, C. O., Early Work with Fixed Nicotine. . . . . (Sci. Note, Apr.) 468
EDDY, C. O., Miscible Oil Emulsifiers and Spreaders. . . . . (Aug.) 722
EDWARDS, W. D. and DON C. MOTE, Omnivorous Leaf Tier, *Cnephasia longana* Haw., a Relatively New Pest of Strawberries, Iris and Other Crops in Oregon. . . . . (Dec.) 1118
ELLISOR, L. O. and E. R. MCGOVRAN, Repellency of Pine-tar Oil to Wound-infesting Blowflies. . . . . (Oct.) 980
ELMORE, J. C. and C. H. RICHARDSON, Toxic Action of Formaldehyde on the Adult House Fly, *Musca domestica* L. . . . . (Apr.) 426
ELMORE, J. C. and ROY E. CAMPBELL, Attraction of Cucumber Beetles to the Buffalo Gourd. . . . . (Oct.) 830
EMERY, W. T., Chinch Bug Flights. . . . . (Oct.) 833
EWING, H. E., Andrew Nelson Caudell 1872–1936. . . . . (Obituary, Apr.) 471
EWING, K. P. and R. L. MCGARR, Two Years' Field Experiments on the Control of the Cotton Flea Hopper with Several Insecticides. . . . . (Feb.) 80

FARLEMAN, M. G., An Experiment for the Control of Juniper Webworm, *Dichomeris* (*Ypsolophus*) *marginellus* Fab. . . . . (June) 493
FARRAR, M. D., Effect of Thrips on Pollination and Blossom Blight in Strawberries. . . . . (June) 483
FARRAR, M. D. and E. R. MCGOVRAN, Fog Chamber: A Technique for Determining Spray Injury to Growing Plants under Laboratory Conditions. (Sci. Note, Apr.) 463
FARRAR, M. D. and W. P. FLINT, Injection Method for Dispersion of Oil into Tank Mixtures. . . . . (Sci. Note, Feb.) 216
FELT, E. P., "Forest Insects." . . . . (Review, Oct.) 1031
FELT, E. P., "The Biology of Mayflies, With a Systematic Account of North American Species." . . . . (Review, Feb.) 223
FELT, E. P. and S. W. BROMLEY, Oil Effects on Shade Trees. . . . . (Apr.) 357

FELT, E. P. and S. W. BROMLEY, Shade-tree Insect Developments.....(June) 490
FENTON, F. A. and G. A. BIEBERDORF, Fly Control on A & M Farms, Stillwater, Okla.....(Oct.) 1003
FENTON, F. A., R. G. DAHMS and R. O. SNELLING, Effect of Several Varieties of Sorghum and other Host Plants on Biology of the Chinch Bug.....(Dec.) 1147
FICHT, G. A., Relative Resistance of Selected Strains of Corn to European Corn Borer.....(Aug.) 687
FILMER, ROBERT S., Spray and Dust Poisoning of Honeybees in New Jersey.(Apr.) 322
FINK, DAVID E. and H. L. HALLER, Relative Toxicity of Some Optically Active and Inactive Rotenone Derivatives to Culicine Mosquito Larvae.....(June) 594
FINK, D. E. and D. L. VIVIAN, Toxicity of Certain Azo Compounds to Mosquito Larvae.....(Sci. Note, Aug.) 804
FINK, D. E. and L. E. SMITH, Toxicity of Certain Organic Compounds to Culicine Mosquito Larvae.....(Sci. Note, Aug.) 804
FLANDERS, S. E., *Coccidophilus citricola* Brèthes, A Predator Enemy of Red and Purple Scales.....(Sci. Note, Oct.) 1023
FLANDERS, S. E., Japanese Species of *Tetrastichus* Parasitic on Eggs of *Galerucella xanthomelaena* (Schrank).....(Sci. Note, Oct.) 1024
FLANDERS, S. E., Remarkable Phenomenon of Reproduction in the Parasitic Hymenoptera.....(Sci. Note, Apr.) 468
FLEMING, WALTER E. and LYLE D. GOODHUE, Stickers for Derris Applied as an Insecticidal Spray.....(June) 580
FLEMION, FLORENCE and ALBERT HARTZELL, Effect of Low Temperature in Shortening Hibernation Period of Insects in the Egg Stage.....(Sci. Note, Aug.) 806
FLINT, W. P., Report of the Delegate to the Fourteenth Annual Meeting of the North Central States Entomologists.....(Feb.) 237
FLINT, W. P. and M. D. FARRAR, Injection Method for Dispersion of Oil into Tank Mixtures.....(Sci. Note, Feb.) 216
FOLSOM, J. W., Additional Notes on Little-known Cotton Insects.....(Dec.) 1066
FOLSOM, J. W., Notes on Little-known Cotton Insects.....(Apr.) 282
FOLSOM, J. W., Observations on *Microbracon mellitor* (Say) in Relation to the Boll Weevil.....(Feb.) 111
FORD, O. W. and C. L. BURKHOLDER, Comparative Methods of Removing Lead Loads Resulting from a Heavy First-brood Oil–Lead Schedule.....(Oct.) 827
FRACKER, S. B., Progressive Intensification of Uncontrolled Plant-disease Outbreaks.....(Oct.) 923
FREAR, DONALD E. H. and HARLAN N. WORTHLEY, Pre-harvest Spraying of Apples for Removal of Lead Residues.....(June) 524
FRIEND, R. B. and H. W. HICOCK, Notes on the European Pine Shoot Moth (Feb.) 210
FRISON, T. H., Retirement of E. Porter Felt.....(Editorial, Feb.) 220
FRISON, T. H., The February Number.....(Editorial, Feb.) 221
FROST, S. W., Soap Washes and Oil Emulsions as Summer Sprays for Peach.(Apr.) 364
FROST, S. W., Tests on Baits for Oriental Fruit Moth, 1935.....(Aug.) 757
FULTON, B. B., Lead Arsenate and Wetting Agents for Corn Earworm Control.....(Sci. Note, Apr.) 466

GADDIS, B. M., Eradication of Citrus Canker and Control of Phony Peach and Peach Mosaic, Progress Report.....(Oct.) 940
GAINES, R. C., Boll Weevil Activity During Normal Hibernation Period at Tallulah, La.....(Dec.) 1096
GARMAN, PHILIP, Notes on the Apple Maggot.....(June) 542
GATES, L. M., Recent Developments in Regard to Alfalfa Weevil.....(Oct.) 947
GETZENDANER, C. W., Parasitizing European Earwig with *Bigonicheta setipennis* Fall., Recent Developments in Methods and Equipment.....(Dec.) 1105
GILMORE, J. U., *Geocoris punctipes* Say Observed as Predaceous upon Eggs of *Phlegethontius* sp.....(Sci. Note, Oct.) 1025
GINSBURG, JOSEPH M., Results with Home-made Oil Emulsions for Orchard Spraying.....(Apr.) 361
GINSBURG, JOSEPH M. and CHESTER J. CAVALLITO, Arsenical Substitutes. II. Some Relationship between Molecular Structure and Toxicity of Organic Compounds to the Silk Worm, *Bombyx mori*.....(Oct.) 856

GINSBURG, JOSEPH M., RALPH E. HEAL and JOHN B. SCHMITT, Studies of Certain New Wetting Agents and Their Application with Insecticides and Fungicides. ..... (Aug.) 714
GOODHUE, LYLE D. and WALTER E. FLEMING, Stickers for Derris Applied as an Insecticidal Spray ..... (June) 580
GOULD, EDWIN, Notes and Observations on the Pistol Case-bearer ..... (June) 573
GOULD, GEORGE E., Studies on Cucumber Beetle Control in 1935 ..... (Aug.) 731
GRAHAM, A. B., Some Thoughts on Teaching Entomology to Adults ..... (Oct.) 911
GROVES, KERMIT and J. MARSHALL, Three-year Study of Calcium Arsenate for Codling Moth Control ..... (Aug.) 658
GROVES, KERMIT and JAMES MARSHALL, Field Methods for Investigation of Codling Moth Insecticides ..... (Dec.) 1137
GUY, H. G., Thiuram Sulfides as Repellents to Leaf-feeding Insects ..... (Sci. Note, Apr.) 467
GUY, H. G., P. L. RICE and L. A. STEARNS, Effect of Procedure on Performance of Certain Insecticides Recommended for Codling Moth Control ..... (Apr.) 378
GWIN, CLARENCE M., Further Developments Concerning Wax Production by the Honeybee Colony. I. A Study of the Production of Wax Scales and Comb Building ..... (Apr.) 318

HALLER, H. L. and DAVID E. FINK, Relative Toxicity of Some Optically Active and Inactive Rotenone Derivatives to Culicine Mosquito Larvae ..... (June) 594
HALLER, H. L., FRED ACREE, JR. and P. S. SCHAFFER, Constituents of Pyrethrum Flowers. III. The Pyrethrin Content of Fresh Flowers ..... (June) 601
HALLOCK, HAROLD C., Notes on Biology and Control of the Asiatic Garden Beetle ..... (Apr.) 348
HAMMER, O. H., An Outbreak of the Gooseberry Fruitworm and its Control with Powdered Derris and Cubé Root ..... (Sci. Note, Feb.) 215
HANSBERRY, T. R., C. H. RICHARDSON and L. C. CRAIG, Toxic Action of Nicotines, Nornicotines and Anabasine upon *Aphis rumicis* L. ..... (Oct.) 850
HANSBERRY, T. ROY and CHARLES H. RICHARDSON, Toxicity of Certain Stomach Poisons to Several Common Lepidopterous Larvae ..... (Dec.) 1160
HARNS, H. G., W. H. ANDERSON and ERNEST N. CORY, Dusts for Control of Flies on Cattle ..... (Apr.) 331
HARRIS, HERBERT H. and Ed. M. SEARLS, Handy Insect Cages Made from Cellophane ..... (Dec.) 1158
HARTZELL, ALBERT and FLORENCE FLEMION, Effect of Low Temperature in Shortening Hibernation Period of Insects in the Egg Stage ..... (Sci. Note, Aug.) 806
HARTZELL, F. Z., Tar-oil and Lubricating-oil Sprays in Relation to Rosy Aphid Control and to Winter-injured Trees ..... (June) 556
HASEMAN, LEONARD, Possible Insect Carriers in the 1933 Outbreak of Encephalitis in Columbia, Mo. ..... (June) 618
HASEMAN, LEONARD, What is Happening to the Codling Moth? ..... (Aug.) 646
HAWKINS, JOHN H., Relation of Soil Utilization to Wireworm Injury ..... (Aug.) 728
HAYES, WM. P., "General Entomology." ..... (Review, Aug.) 809
HAYES, WM. P., Structural Differences between Greater and Lesser Wax Moth ..... (Dec.) 1055
HAYDAK, MYKOLA H., A Food for Rearing Laboratory Insects ..... (Sci. Note, Oct.) 1026
HAYDAK, MYKOLA H., Value of Foods Other than Pollen in Nutrition of the Honeybee ..... (Oct.) 870
HEADLEE, THOMAS J., Brood Study of the Codling Moth for One Decade ..... (Aug.) 639
HEADLEE, THOMAS J. and D. MANLEY JOBBINS, Further Studies of the Use of Radio Waves in Insect Control ..... (Feb.) 181
HEAL, RALPH E., Derris Insecticides. VI. Summer Control of European Red Mite on Apple with Derris and Neutral Wetting Agents ..... (June) 550
HEAL, RALPH E., JOHN B. SCHMITT and JOSEPH M. GINSBURG, Studies of Certain New Wetting Agents and Their Application with Insecticides and Fungicides. (Aug.) 714
HEMING, W. E., Enemies of the Mexican Mealybug, *Phenacoccus gossypii* (T. & Ckll.) ..... (Sci. Note, June) 633
HERMAN, F. A. and J. F. HOCKEY, Control of Potato Flea Beetle, *Epitrix cucumeris* Harr. ..... (Sci. Note, Dec.) 1173

HICOCK, H. W. and R. B. FRIEND, Notes on the European Pine Shoot Moth..(Feb.) 210
HILEY, JULIAN, H. L. CUPPLES and H. R. YUST, Tests of Possible Substitutes for Hydrocyanic Acid in Fumigation of California Red Scale.....(June) 611
HILEY, JULIAN, H. R. YUST, F. H. LATHROP and H. L. CUPPLES, Comparative Toxicities of Methyl Thiocyanate and Hydrocyanic Acid to the California Red Scale.....(Apr.) 410
HITCHCOCK, JOHN D., Laboratory and Field Tests of Chlorine Treatment of Honey Combs.....(Oct.) 895
HIXSON, EPHRAIM. Distribution of Hibernated Boll Weevils in an Oklahoma Cotton Field.....(Feb.) 96
HIXSON, EPHRAIM, and C. A. SOOTER, Freezing Temperature of the Chinch Bug, *Blissus leucopterus* Say.....(Sci. Note, Apr.) 465
HIXSON, HOMER and F. C. BISHOPP, Biology and Economic Importance of the Gulf Coast Tick.....(Dec.) 1068
HOCKENYOS, GEORGE L., Mechanism of Absorption of Pyrethrum Powder by Roaches.....(Apr.) 433
HOCKEY, J. F. and F. A. HERMAN, Control of Potato Flea Beetle, *Epitrix cucumeris* Harr.....(Sci. Note, Dec.) 1173
HOFFMAN, C. H., C. W. COLLINS, W. D. BUCHANAN and R. R. WHITTEN, Bark Beetles and Other Possible Insect Vectors of the Dutch Elm Disease, *Ceratostomella ulmi* (Schwarz) Buisman.....(Feb.) 196
HOLMES, CLAYTON E. and H. F. WILSON, Effect on Chickens of Arsenic in Grasshopper Bait. Little Danger in Eating Arsenic-fed Chickens.....(Oct.) 1008
HORSFALL, W. R., Occurrence and Sequence of Mosquitoes in Southeastern Arkansas in 1935.....(Aug.) 676
HOSKINS, W. M. and E. L. WAMPLER, Factors Concerned in the Deposit of Sprays. II. Effect of Electrostatic Charge Upon the Deposit of Lead Arsenate....(Feb.) 134
HOUGH, W. S. and R. N. JEFFERSON, Tests of Insecticidal Efficiency of Some Contact Sprays Against Codling Moth Eggs.....(June) 537
HOUSER, J. S. "Pyrethrum Flowers."....(Review, Dec.) 1179
HOUSER, J. S. and J. B. POLIVKA, Pine-tip Moths of Southern Ohio.....(June) 494
HOUSER, J. S. and R. B. NEISWANDER, A New and Effective Control for Apple Flea Weevil.....(June) 481
HOWARD, NEALE F. and LOYD W. BRANNON, Observations on Control of Mexican Bean Beetle in Association with Powdery Mildew Disease on Snap Beans.....(Sci. Note, Oct.) 1028
HOYER, DAVID, S. ZARKOSKI VON SCHMIDT and ALFRED WEED, Dosage-Mortality Curve of Pyrethrum Sprays on the House Fly, *Musca domestica* L.....(June) 598
HOYER, DAVID G. and M. D. LEONARD, Pyrethrin Content of Pyrethrum Flowers from Various Sources.....(June) 605
HUBER, L. L. and F. B. WHITTINGTON, Study of Chinch Bug Populations in Ohio.....(Aug.) 684
HUCKETT, H. C., Some Tests of Pyrethrum, Derris and Nicotine Mixtures Against Cabbage Worms.....(June) 575
HUTCHINS, R. E., J. A. ADAMS and B. T. SNIPES, Effectiveness of Sodium Fluoride, Arsenic Trioxide and Thiodiphenylamine as Food Poisons for the Firebrat, *Thermobia domestica* (Packard).....(Apr.) 421
HUTSON, RAY, Bill-posters' Paste in Mite-control Sprays.....(Sci. Note, Dec.) 1173
HYSLOP, J. A., Clarence Waterman Lewis 1882–1936.....(Obituary, Oct.) 1030
HYSLOP, J. A., The Periodical Cicada.....(Aug.) 671

ISELY, DWIGHT and H. H. SCHWARDT, Variations in Codling Moth Injury in Northwestern Arkansas.....(June) 473

JEFFERSON, R. N. and W. S. HOUGH, Tests of Insecticidal Efficiency of Some Contact Sprays Against Codling Moth Eggs.....(June) 537
JOBBINS, D. MANLEY and THOMAS J. HEADLEE, Further Studies of the Use of Radio Waves in Insect Control.....(Feb.) 181
JOHNSON, H. W. and F. W. POOS, Injury to Alfalfa and Red Clover by the Potato Leafhopper.....(Apr.) 325
JONES, E. T., *Hordeum* Grasses as Hosts of the Hessian Fly.....(Aug.) 704

JONES, E. W. and M. C. LANE, Flooding as a Means of Reducing Wireworm Infestations. . . . (Oct.) 842
JONES, GEORGE D., Obtaining Cooperation of Growers in Studying Spray Schedules. . . . (Aug.) 764
JONES, LAURENCE S., Notes on the Control of *Anarsia lineatella* in California. (Feb.) 156
JONES, M. P., The Extension Service and Insect Control. . . . (Oct.) 921
JONES, S. E., Beet Leafhopper on Texas Spinach. . . . (Sci. Note, Aug.) 805
JONES, T. H., Longevity of Adults of Elm Leaf Beetle. . . . (Sci. Note, Feb.) 217

KAGY, J. FRANKLIN, Laboratory Method of Comparing the Toxicity of Substances to San Jose Scale. . . . (Apr.) 393
KAGY, J. FRANKLIN, Toxicity of Some Nitro-phenols as Stomach Poisons for Several Species of Insects. . . . (Apr.) 397
KAGY, J. FRANKLIN and CHARLES H. RICHARDSON, Ovicidal and Scalicidal Properties of Solutions of Dinitro-o-cyclohexylphenol in Petroleum Oil. . . . (Feb.) 52
KASTON, B. J. and W. B. BECKER, *Spathius canadensis* Ashm., a Parasite of *Hylurgopinus rufipes* (Eich.). . . . (Sci. Note, Aug.) 807
KEITT, G. W., Some Problems and Principles of Orchard Disease Control with Special Reference to Sanitation and Related Measures. . . . (Feb.) 43
KELLEY, E. G., Organization of the Kansas Entomology Extension Service. (Oct.) 908
KNOWLTON, GEORGE F. and CLYDE F. SMITH, Lizard Aids in Range Insect Control. . . . (Sci. Note, Apr.) 461

LADUE, J. P. and RALPH H. SMITH, Blood Albumin Spreader Used with Oil Sprays. . . . (Oct.) 838
LANE, M. C. and E. W. JONES, Flooding as a Means of Reducing Wireworm Infestations. . . . (Oct.) 842
LATHROP, F. H., H. L. CUPPLES, JULIAN HILEY and H. R. YUST, Comparative Toxicities of Methyl Thiocyanate and Hydrocyanic Acid to the California Red Scale. . . . (Apr.) 410
LATTA, RANDALL, Experiments with Oil Sprays to Control Rhododendron Whitefly. . . . (Dec.) 1125
LEONARD, M. D. and DAVID G. HOYER, Pyrethrin Content of Pyrethrum Flowers from Various Sources. . . . (June) 605
LEPELLEY, RICHARD H. and W. N. SULLIVAN, Toxicity of Rotenone and Pyrethrins, Alone and in Combination. . . . (Aug.) 791
LEWIS, H. C. and R. S. WOGLUM, Nitrogen Trichloride as a Fumigant. . . . (Sci. Note, June) 631
LILLY, JOHN H., Influence of Certain Factors on Oviposition Responses of the Cherry Case-Bearer. . . . (Aug.) 710
LILLY, JOHN H., Selenium in Dormant Sprays. . . . (Sci. Note, Apr.) 466
LINDGREN, D. L., Methyl Bromide Fumigation of Codling Moth Larvae. . . . (Sci. Note, Dec.) 1174
LINDGREN, D. L., Vacuum Fumigation. . . . (Dec.) 1132
LINDQUIST, ARTHUR W., Parasites of Horn Fly and other Flies Breeding in Dung. . . . (Dec.) 1154
LIPP, J. W. and F. W. METZGER, Value of Lime and Aluminum Sulfate as a Repellent Spray for Japanese Beetle. . . . (Apr.) 343
LIST, GEO. M., Rocky Mountain Conference of Entomologists. . . . (Notice, June) f. 473
LIVINGSTONE, E. M. and W. D. REED, Insect Fauna of Cured Tobacco in Storage in the United States. . . . (Oct.) 1017
LYLE, CLAY, Challenge of the Argentine Ant. . . . (Oct.) 965
LYLE, CLAY, Long Survival of *Gibbium psylloides* Czemp. . . . (Sci. Note, Oct.) 1026

MACLEOD, G. F. and FRANK B. MAUGHAN, Further Studies of Onion Varieties and Onion Thrips. . . . (Apr.) 335
MACLEOD, G. F. and KENNETH E. MAXWELL, Experimental Studies of the Hairy Chinch Bug. . . . (Apr.) 339
MAIL, G. ALLEN, Thiodiphenolamine—A New Ingredient of Mosquito Larvicides. . . . (Dec.) 1144
MARCOVITCH, S. and W. W. STANLEY, A New Form of Cryolite. . . . (Aug.) 725

MARSHALL, G. E., New Method of Codling Moth Control in Theory and Practice. (Aug.) 669
MARSHALL, J. and KERMIT GROVES, Three-year Study of Calcium Arsenate for Codling Moth Control (Aug.) 658
MARSHALL, JAMES and KERMIT GROVES, Field Methods for Investigation of Codling Moth Insecticides (Dec.) 1137
MARTIN, CHARLES H., Preliminary Report of Trap-log Studies on Elm Bark Beetles (Apr.) 297
MATHES, RALPH, Three Factors Affecting Laboratory Rearing of European Corn Borer Larvae (Aug.) 691
MAUGHAN, FRANK B. and G. F. MACLEOD, Further Studies of Onion Varieties and Onion Thrips (Apr.) 335
MAXWELL, KENNETH E. and G. F. MACLEOD, Experimental Studies of the Hairy Chinch Bug (Apr.) 339
MCALISTER, L. C., JR., Observations on the West Indian Fruit Fly at Key West in 1932–33 (Apr.) 440
MCDANIEL, E. I., *Amelia (Tortrix) pallorana* Robinson Attacks *Pinus* sp. (Sci. Note, Dec.) 1175
MCDANIEL, E. I., Control of the Potato Leafhopper, *Empoasca fabae*, on Dahlia with Flour, Talc and Infusorial Earth (Sci. Note, Apr.) 464
MCDANIEL, E. I., *Leptocoris trivittatus* Say Killed by a Sulfonated Higher-alcohol Spray (Sci. Note, Dec.) 1176
MCGARR, R. L. and K. P. EWING, Two Years' Field Experiments on the Control of the Cotton Flea Hopper with Several Insecticides (Feb.) 80
MCGOVRAN, E. R., Laboratory Tests with Impregnated Oil as Codling Moth Larvicides (Apr.) 417
MCGOVRAN, E. R., and L. O. ELLISOR, Repellency of Pine-tar Oil to Wound-infesting Blowflies (Oct.) 980
MCGOVRAN, E. R. and M. D. FARRAR, Fog Chamber: a Technique for Determining Spray Injury to Growing Plants under Laboratory Conditions (Sci. Note, Apr.) 463
MCLAINE, L. S., Recent Developments in Canadian Regulatory Work (Aug.) 766
MCLAINE, LEONARD S., Special Meeting of the Executive Committee (Editorial, Apr.) 470
MCPHAIL, M. and N. O. BERRY, Observations on *Anastrepha pallens* (Coq.) (Apr.) 405
METCALF, C. L., "Report of the East Africa Subcommittee of the Tsetse Fly Committee, Economic Advisory Council." (Review, Apr.) 472
METCALF, C. L., "The Pioneer Century of American Entomology." (Review, June) 636
METZGER, F. W., Value of Improvements in Japanese Beetle Traps and Bait as Measured by the Numbers of Beetles Caught (Apr.) 449
METZGER, F. W. and J. W. LIPP, Value of Lime and Aluminum Sulfate as a Repellent Spray for Japanese Beetle (Apr.) 343
MILLER, A. C. and E. P. BREAKEY, Halowax (Chlorinated Napthalene) as an Ovicide for Codling Moth and Oriental Fruit Moth (Oct.) 820
MOORE, JOSEPH B., Calcium Cyanide for Control of Squash Bug, *Anasa tristis* De G. (Sci. Note, Dec.) 1174
MOORE, WARREN, Persistence of Toxicity of Nicotine–Bentonite on Apples. (June) 590
MOORE, WILLIAM, Differences Between Resistant and Nonresistant Red Scale in California (Feb.) 65
MOROFSKY, W. F., Survey of Insect Fauna of Some Michigan Trout Streams in Connection with Improved and Unimproved Streams (Aug.) 749
MORRILL, A. W., JR. and F. S. CHAMBERLIN, Experiments to Control Tobacco Budworm (Oct.) 967
MOTE, DON C. and W. D. EDWARDS, Omnivorous Leaf Tier, *Cnephasia longana* Haw., a Relatively New Pest of Strawberries, Iris and Other Crops in Oregon. (Dec.) 1118
MOZNETTE, G. F., Effectiveness of Low Concentrations of Nicotine in Combination with Other Materials Against Black Pecan Aphid (Oct.) 970
MUESEBECK, C. F. W., Foster H. Benjamin 1895–1936 (Obituary, Feb.) 226
MUNDINGER, F. G., Pear Midge in Relation to Fruit Set and Timing of Control Sprays (Dec.) 1058

MUNGER, F., L. E. SMITH and E. H. SIEGLER, Laboratory Tests of Phenothiazine Against Codling Moth Larvae.....(June) 532
MUNGER, F., L. E. SMITH and E. H. SIEGLER, Potential New Insecticides.....(Sci. Note, Oct.) 1027
MUNRO, J. A., Disease Checks Bertha Army Worms.....(Sci. Note, Feb.) 218
MUNRO, J. A., Grasshoppers and Agricultural Development in North Dakota.....(Oct.) 813
MURPHY, D. F., Insecticidal Activity of Aliphatic Thiocyanates. III. Red Spiders and Mites.....(June) 606

NEISWANDER, R. B. and J. S. HOUSER, A New and Effective Control for Apple Flea Weevil.....(June) 481
NELSON, R. H., Cold Storage as a Control for Gladiolus Thrips.....(Apr.) 389
NELSON, R. H., Observations on the Life History of *Platynota stultana* Wlsm. on Greenhouse Rose.....(Apr.) 306
NELSON, R. H. and C. A. Weigel, Heat Treatments for Control of Bulb Mite on Tuberose.....(Aug.) 744
NEWCOMER, E. J., Effect of Cold Storage on Eggs and Young Larvae of Codling Moth.....(Dec.) 1123
NEWELL, WILMON, Progress Report on the Key West (Florida) Fruit Fly Eradication Project.....(Feb.) 116
NOBLE, L. W., An Underground Room for Breeding Parasites.....(Apr.) 286
NOBLE, L. W., The Biological Possibility of Infestation by Flight of the Pink Bollworm Moth.....(Feb.) 78
NOBLE, L. W. and G. F. WHITE, Notes on Pink Bollworm Septicemia.....(Feb.) 122

O'KANE, W. C., National Plant Board Quarantine Conference Resolutions, 1935.....(Hort. Inspection Note, Aug.) 811
O'KANE, W. C., The Crop Protection Institute.....(Feb.) 6

PALM, CHARLES E., Status of the Alfalfa Snout Beetle in New York, *Brachyrhinus ligustici* L.....(Oct.) 960
PAYNE, NELLIE M., Injury to Lumber by *Hadrobregmus carinatus* Say.....(Sci. Note, Oct.) 1027
PEARIS, L. M., Barium Carbonate for the Bean Beetle.....(June) 584
PEPPER, B. B. and B. F. DRIGGERS, Effect of Orchard Practices on Codling Moth and Leafhopper Parasitism.....(June) 477
POLIVKA, J. B. and J. S. HOUSER, Pine-tip Moths of Southern Ohio.....(June) 494
POOS, F. W. and H. W. JOHNSON, Injury to Alfalfa and Red Clover by the Potato Leafhopper.....(Apr.) 325
PRENDERGAST, D. T. and A. BOYCE, Dinitro-ortho-cyclohexylphenol Offers Promise in Control of Citrus Red Mite.....(Sci. Note, Feb.) 218

RAINWATER, C. F., Further Studies on Cotton-root Aphid and Other Subterranean Aphids in South Atlantic States.....(Dec.) 1092
RAINWATER, C. F., Occurrence of *Aphis medicaginis* Koch and *Anomis flava fimbriago* Steph. on Cotton in South Carolina.....(Feb.) 94
REA, GEORGE H., Fundamental Principles and Practices in Extension Apiculture.....(Oct.) 860
REED, T. WALTER, Problem of European Red Mite on Prunes in Western New York.....(June) 546
REED, W. D. and E. M. LIVINGSTONE, Insect Fauna of Cured Tobacco in Storage in the United States.....(Oct.) 1017
REID, W. J., JR., Relation of Fertilizers to Seed Corn Maggot Injury to Spinach Seedlings.....(Oct.) 973
REPPERT, R. R., Chalk Talks in Extension Entomology.....(Oct.) 913
RICE, P. L., L. A. STEARNS and H. G. GUY, Effect of Procedure on Performance of Certain Insecticides Recommended for Codling Moth Control.....(Apr.) 378
RICHARDSON, C. H. and J. C. ELMORE, Toxic Action of Formaldehyde on the Adult House Fly, *Musca domestica* L.....(Apr.) 426
RICHARDSON, C. H., L. C. CRAIG and T. R. HANSBERRY, Toxic Action of Nicotines, Nornicotines and Anabasine upon *Aphis rumicis* L.....(Oct.) 850

RICHARDSON, CHARLES and DONALD STARR, Toxicity of Dextro and Levo-alpha-para-tolylpyrrolidine to *Aphis rumicis* L. ..... (Sci. Note, Feb.) 214
RICHARDSON, CHARLES H. and J. FRANKLIN KAGY, Ovicidal and Scalicidal Properties of Solutions of Dinitro-o-cyclohexylphenol in Petroleum Oil ..... (Feb.) 52
RICHARDSON, CHARLES H. and T. ROY HANSBERRY, Toxicity of Certain Stomach Poisons to Several Common Lepidopterous Larvae ..... (Dec.) 1160
RIKER, A. J., Recent Developments in Control of Graft Knots on Nursery Apple Trees ..... (Oct.) 956
RITCHER, P. O., Larger Apple Curculio in Wisconsin ..... (Aug.) 697
RITCHER, P. O. and R. K. CALFEE, Wider Uses for Nicotine ..... (Sci. Note, Oct.) 1027
RUGGLES, A. G., Strawberry Plant Certification Work in Minnesota ..... (Oct.) 953

SABROSKY, CURTIS W. and DONALD A. WILBUR, Chloropid Populations on Pasture Grasses in Kansas ..... (Apr.) 384
SANDERS, J. G., The Commercial Entomologist ..... (Feb.) 20
SCHAFFER, P. S., H. L. HALLER and FRED ACREE, JR., Constituents of Pyrethrum Flowers. III. The Pyrethrin Content of Fresh Flowers ..... (June) 601
SCHAFFNER, J. V., JR., European Sawfly, *Pristiphora geniculata*, Attacks Mountain Ash in the United States ..... (Sci. Note, Apr.) 469
SCHMITT, JOHN B., JOSEPH M. GINSBURG and RALPH E. HEAL, Studies of Certain New Wetting Agents and Their Application with Insecticides and Fungicides ..... (Aug.) 714
SCHOENE, W. J., Partial Second Brood of Plum Curculio in Virginia ..... (June) 571
SCHOPP, RALPH, Observations on Life History of Lily Bulb Thrips, *Liothrips vaneeckei* Priesner ..... (Dec.) 1099
SCHWARDT, H. H., and DWIGHT ISELY, Variations in Codling Moth Injury in Northwestern Arkansas ..... (June) 473
SEARLS, ED. M. and FRED M. SNYDER, Relation of Viscosity to Drop Size and the Application of Oils by Atomization ..... (Dec.) 1167
SEARLS, ED. M. and HERBERT H. HARRIS, Handy Insect Cages Made from Cellophane ..... (Dec.) 1158
SELLERS, W. F., Joseph Ujhelyi 1882–1935 ..... (Obituary, Feb.) 226
SHERMAN, FRANKLIN III., Eight Seasons' Tests in Codling Moth Control in Michigan ..... (Aug.) 653
SIEGLER, E. H., F. MUNGER and L. E. SMITH, Laboratory Tests of Phenothiazine Against Codling Moth Larvae ..... (June) 532
SIEGLER, E. H., F. MUNGER and L. E. SMITH, Potential New Insecticides ..... (Sci. Note, Oct.) 1027
SIMANTON, W. A., Frank L. Simanton 1875–1935 ..... (Obituary, Feb.) 224
SMITH, CLYDE F. and GEORGE F. KNOWLTON, Lizard Aids in Range Insect Control. ..... (Sci. Note, Apr.) 461
SMITH, G. L., Percentage and Causes of Mortality of Boll Weevil Stages Within the Squares ..... (Feb.) 99
SMITH, G. L. and M. T. YOUNG, Field Movement of Boll Weevils in Relation to Initial Infestation and Rainfall ..... (Dec.) 1063
SMITH, G. L. and M. T. YOUNG, Field-plat and Cage Tests for Boll Weevil Control. ..... (Feb.) 105
SMITH, L. E. and D. E. FINK, Toxicity of Certain Organic Compounds to Culicine Mosquito Larvae ..... (Sci. Note, Aug.) 804
SMITH, L. E., E. H. SIEGLER and F. MUNGER, Laboratory Tests of Phenothiazine Against Codling Moth Larvae ..... (June) 532
SMITH, L. E., E. H. SIEGLER and F. MUNGER, Potential New Insecticides ..... (Sci. Note, Oct.) 1027
SMITH, M. R., Consideration of the Fire Ant, *Solenopsis xyloni*, as an Important Southern Pest ..... (Feb.) 120
SMITH, RALPH H. and J. P. LADUE, Blood Albumin Spreader Used with Oil Sprays. ..... (Oct.) 838
SNAPP, OLIVER I. and J. R. THOMSON, JR., Experiments with New Materials to Control Peach Borer ..... (Dec.) 1088
SNELLING, R. O., F. A. FENTON and R. G. DAHMS, Effect of Several Varieties of Sorghum and Other Host Plants on Biology of the Chinch Bug ..... (Dec.) 1147

SNELLING, RALPH O., Third Generation and Method of Migration of Chinch Bug in Southwestern Oklahoma ..... (Aug.) 797
SNIPES, B. T., R. E. HUTCHINS and J. A. ADAMS, Effectiveness of Sodium Fluoride, Arsenic Trioxide and Thiodiphenylamine as Food Poisons for the Firebrat, *Thermobia domestica* (Packard) ..... (Apr.) 421
SNYDER, FRED M. and ED. M. SEARLS, Relation of Viscosity to Drop Size and the Application of Oils by Atomization ..... (Dec.) 1167
SOOTER, C. A. and EPHRAIM HIXSON, Freezing Temperatures of the Chinch Bug, *Blissus leucopterus* Say ..... (Sci. Note, Apr.) 465
SORENSON, C. J., *Lygus* Bugs in Relation to Occurrence of Shriveled Alfalfa Seed. ..... (Apr.) 454
STANLEY, W. W. and S. MARCOVITCH, A New Form of Cryolite ..... (Aug.) 725
STARR, DONALD and CHARLES RICHARDSON, Toxicity of Dextro and Levo-alpha-para-tolylpyrrolidine to *Aphis rumicis* L. ..... (Sci. Note, Feb.) 214
STEARNS, L. A., H. G. GUY and P. L. RICE, Effect of Procedure on Performance of Certain Insecticides Recommended for Codling Moth Control ..... (Apr.) 378
STEINER, HAROLD M., New Nymphal-Adult Parasite of White Apple Leafhopper .. .. (Sci. Note, June) 632
STEINER, L. F. and A. J. ACKERMAN, Large-scale Test of Orchard Sanitation to Control Codling Moth, Progress Report ..... (Aug.) 648
STRONG, LEE A., Stabilizing Entomology ..... (Feb.) 1
SULLIVAN, W. N. and RICHARD H. LEPELLEY, Toxicity of Rotenone and Pyrethrins, Alone and in Combination ..... (Aug.) 791
SUMMERLAND, S. A. and JOHN M. AMOS, Cerambycids Captured in Codling Moth Bait Traps ..... (Sci. Note, Dec.) 1172

TATE, H. D. and FLOYD ANDRE, Laboratory Studies on Toxicity of Nicotine and Soap to Gladiolus Thrips and Onion Thrips, *Taeniothrips simplex* (Morison), *Thrips tabaci* Lindeman ..... (Aug.) 738
THOMAS, C. A., Status of the Tomato Pin Worm, *Gnorimoschema lycopersicella* Busck in Pennsylvania ..... (Apr.) 313
THOMAS, F. L., Warren Elmer Hinds 1876–1936 ..... (Obituary, Feb.) 225
THOMAS, W. A., A Crane Fly Larva Attacking Newly Set Strawberry Plants .... (Sci. Note, Oct.) 1026
THOMSON, J. R., JR. and OLIVER I. SNAPP, Experiments with New Materials to Control Peach Borer ..... (Dec.) 1080
TIETZ, HARRISON M., A Novel Light Trap ..... (Sci. Note, Apr.) 426
TURNER, NEELY, "Our Enemy the Termite." ..... (Review, Feb.) 223
TURNER, NEELY and M. P. ZAPPE, Termite Damage in Connecticut ..... (Feb.) 195

VAN DINE, D. L., Measures Other than Spraying for the Control of Orchard Insect Pests ..... (Feb.) 37
VANSELL, GEORGE H., Lesser Wax Moth Found in Oregon and California .... (Sci. Note, Dec.) 1176
VINSON, C. G., Substitutes for Lead Arsenate in Codling Moth Sprays ..... (Aug.) 655
VIVIAN, D. L. and D. E. FINK, Toxicity of Certain Azo Compounds to Mosquito Larvae ..... (Sci. Note, Aug.) 804
VON SCHMIDT, S. ZARKOSKI, ALFRED WEED and DAVID HOYER, Dosage-Mortality Curve of Pyrethrum Sprays on the House Fly, *Musca domestica* L. ..... (June) 598

WAGNER, GEORGE B., R. T. COTTON and H. D. YOUNG, Fumigation of Flour Mills with Hydrocyanic Acid Gas ..... (June) 514
WAKELAND, CLAUDE, Fighting Mormon Crickets ..... (Oct.) 904
WALKDEN, H. H., Pupal Period of the Hessian Fly ..... (Aug.) 701
WALKER, HARRY G., LAUREN D. ANDERSON and C. R. WILLEY, European Corn Borer on the Eastern Shore of Virginia ..... (Feb.) 202
WAMPLER, E. L. and W. M. HOSKINS, Factors Concerned in the Deposit of Sprays. II. Effect of Electrostatic Charge upon the Deposit of Lead Arsenate .... (Feb.) 134
WEED, ALFRED, DAVID HOYER and S. ZARKOSKI VON SCHMIDT, Dosage-Mortality Curve of Pyrethrum Sprays on the House Fly, *Musca domestica* L. ..... (June) 598
WEIGEL, C. A. and R. H. NELSON, Heat Treatments for Control of Bulb Mite on Tuberose ..... (Aug.) 744

WEISS, HARRY B., Entomologists and Entomological Publications. (Editorial, June) 635
WHITE, G. F. and L. W. NOBLE, Notes on Pink Bollworm Septicemia.....(Feb.) 122
WHITTEN, R. R., C. H. HOFFMAN, C. W. COLLINS and W. D. BUCHANAN, Bark Beetles and Other Possible Insect Vectors of the Dutch Elm Disease, *Ceratostomella ulmi* (Schwarz) Buisman.....(Feb.) 169
WHITTINGTON, F. B. and L. L. HUBER, Study of Chinch Bug Populations in Ohio. .....(Aug.) 684
WILBUR, DONALD A. and CURTIS W. SABROSKY, Chloropid Populations on Pasture Grasses in Kansas.....(Apr.) 384
WILLEY, C. R., HARRY G. WALKER and LAUREN D. ANDERSON, European Corn Borer on the Eastern Shore of Virginia.....(Feb.) 202
WILSON, C. C., Notes on the Warrior Grasshopper, *Camnula pellucida* (Scudder) and its Egg Parasite *Aphoebantus hirsutus* Coq. in Northern California...(Apr.) 413
WILSON, H. F. and CLAYTON E. HOLMES, Effect on Chickens of Arsenic in Grasshopper Bait. Little Danger in Eating Arsenic-fed Chickens.....(Oct.) 1008
WISECUP, C. B., Decrease in Effectiveness of Stored Pyrethrum Dusts as Shown by Biological Tests with the Celery Leaf Tier in the Laboratory.....(Oct.) 1000
WOGLUM, R. S. and H. C. LEWIS, Nitrogen Trichloride as a Fumigant..... .....(Sci. Note, June) 631
WOLFENBARGER, D. O., Feeding and Utilization of Sucrose Solutions by Potato Flea Beetle and Fall Webworm. Feeding Insecticides to Flea Beetle.....(June) 586
WOLFENBARGER, D. O., Insect and Disease Evaluations in Potato Experiments... .....(Feb.) 187
WOODSIDE, A. M., Comstock's Mealybug as an Apple Pest.....(June) 544
WOODWORTH, CHAS. E., Effect of Reduced Temperature and Pressure on Honeybee Respiration.....(Dec.) 1128
WORTHINGTON, A. D. and G. C. DECKER, Fighting Chinch Bugs in Iowa....(Aug.) 760
WORTHLEY, HARLAN N., Codling Moth Spraying Experiments in Pennsylvania in 1935.....(June) 527
WORTHLEY, HARLAN N. and DONALD E. H. FREAR, Pre-harvest Spraying of Apples for Removal of Lead Residues.....(June) 524
WORTHLEY, L. H., Progress in Dutch Elm Disease Eradication.....(Feb.) 176
WORTHLEY, L. H., Progress in Dutch Elm Disease Eradication.....(Aug.) 785

YIP, JETHRO S., Insect Damage to Seeds of *Cracca virginiana* L.....(June) 622
YOUNG, H. D., GEORGE B. WAGNER and R. T. COTTON, Fumigation of Flour Mills with Hydrocyanic Acid Gas.....(June) 514
YOUNG, M. T. and G. L. SMITH, Field Movement of Boll Weevils in Relation to Initial Infestation and Rainfall.....(Dec.) 1063
YOUNG, M. T. and G. L. SMITH, Field-plat and Cage Tests for Boll Weevil Control. .....(Feb.) 105
YUST, H. R., F. H. LATHROP, H. L. CUPPLES and JULIAN HILEY, Comparative Toxicities of Methyl Thiocyanate and Hydrocyanic Acid to the California Red Scale.....(Apr.) 410
YUST, H. R., JULIAN HILEY and H. L. CUPPLES, Tests of Possible Substitutes for Hydrocyanic Acid in Fumigation of California Red Scale.....(June) 611

ZAPPE, M. P. and NEELY TURNER, Termite Damage in Connecticut.....(Feb.) 195
ZAPPE, M. P., Notes on a Japanese Weevil, *Calomycterus setarius* Roelofs, in Connecticut.....(Feb.) 193